

**DUPAL™****Semi-priming Cutback Bitumen**

Product Data Sheet 2012/08

**DESCRIPTION**

**DUPAL™** is a blend of 70/100 penetration grade bitumen and slow curing petroleum flux.

**USES**

**DUPAL™** binder can be sprayed and covered with crusher dust or coarse natural sand\* for use as a low cost seal for gravel roads. **DUPAL™** is suitable for roads carrying light traffic and low volume of heavy vehicles. Due to the presence of cutter, no priming of the base is required and the sand covering can be applied by hand.

\* Maximum % material passing 0.075 mm sieve is 5% m/m.

**PROPERTIES**

**DUPAL™** binder can penetrate most gravel bases whilst depositing sufficient residual binder on the surface to retain the crusher dust or coarse sand. As a thin surfacing, Dupal relies on the base for strength and performance, to which end a minimum CBR of 45 is recommended.

**SPECIFICATIONS**

EMULSION PROPERTIES	REQUIREMENT		TEST METHOD
	Min	Max	
Kinematic viscosity @ 60°C, cSt	1.8	2.4	ASTM D4402
Dynamic viscosity @ 135°C, Pa·s	0.3	0.5	ASTM D4402
Density @ 25°C, kg/l	0.98	1.00	-
Flash point, °C	60	100	ASTM D93-97
DISTILLATION DATA	TYPICAL TEST VALUE		TEST METHOD
Volume distillate recovered after distillation to 360°C, % v/v	6		ASTM D402
Penetration of residue after distillation to 360°C (0.1mm)	> 350		ASTM D5

**DIRECTIONS FOR USE**

1. Sweep and dampen the base with a light spray of water.
2. Spray **DUPAL™** binder with a distributor at an application rate of 1.4 l/m<sup>2</sup> at a temperature of 130°C.
3. Allow the binder to penetrate the base for 20 minutes.
4. Cover the binder with dry graded sand at 200 m<sup>2</sup>/m<sup>3</sup>.
5. Roll with a pneumatic tyred roller with a minimum of 3 passes.
6. Control traffic speed to below 40 km/hour within early life of seal.
7. Sweep back loose sand into wheel tracks up to 3 weeks after construction.
8. Timeous resealing within 6 months to 2 years can result in a durable surfacing seal.

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